INTERNATIONAL SEARCH REPORT

Interi al Application No PCT/US 02/37408

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H04B7/005

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC $7 \quad H04B$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
А	WO 01/50635 A (AIRNET COMM CORP) 12 July 2001 (2001-07-12) abstract page 1, line 12 - line 18 page 5, line 9 - page 7, line 17 page 15, line 16 - page 16, line 11 page 23, line 20 - page 25, line 4 figures 4,5	1-39,42
А	US 2001/031624 A1 (SCHMUTZ THOMAS R) 18 October 2001 (2001-10-18) abstract page 1, right-hand column, paragraph 8 - paragraph 10 page 4, left-hand column, paragraph 38 - right-hand column, paragraph 41 figure 4	1-39,42

Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
 Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed 	 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the international search 16 September 2004	Date of mailing of the international search report 3 0. 12, 2004
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016	Authorized officer Lopez Marquez, T

INTERNATIONAL SEARCH REPORT

Inter____iai Application No PCT/US 02/37408

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT						
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.				
A	US 6 108 364 A (WEAVER JR LINDSAY A ET AL) 22 August 2000 (2000-08-22) abstract column 6, line 20 - line 67					

International application No. PCT/US 02/37408

INTERNATIONAL SEARCH REPORT

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)	
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:	
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:	
2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:	
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).	
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)	
This International Searching Authority found multiple inventions in this international application, as follows:	
see additional sheet	
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.	
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.	
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:	
4. X No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-39, 42	-
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.	

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-39,42

Method and apparatus for controlling output power and noise of a repeater, which comprises an embedded wireless communication device to which a pre-selected portion of a donor base station communication signal is coupled. The repeater receives power adjustment information from the donor base station for its wireless communication device and adjusts its return link gain based on the power adjustment information.

2. claims: 40,41

Repeater comprising: first duplexer, a coupler, a first fixed attenuator, a second duplexer, a combiner, one or more amplifiers, a second fixed attenuator, a digital step attenuator, a circulator, a third fixed attenuator, a fourth fixed attenuator, a repeater phone and a micro-controller for issuing commands to control the attenuation and power output of the repeater.

INTERNATIONAL SEARCH REPORT

Inter al Application No
PCT/US 02/37408

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